

NATSVLISHVILI, G.A.; AKHMETELI, T.I.

Coronarography. Soob. AN Gruz. SSR 27 no.5:625-628 N '61.
(MIRA 15:1)

1. AN Gruzinskoy SSR, Institut eksperimental'noy i klinicheskoy
khirurgii i gematologii, Tbilisi. Predstavleno akademikom
K.D. Eristavi.

(CORONARY VESSELS)

PETROVSKIY, B.V., prof.; NATSVLISHVILI, G.A., kand.med.nauk; KRYLOV,
V.S., kand.med.nauk (Moskva)

Significance of contrast methods in the diagnosis and treatment of sclerotic lesions of the aorta and great vessels.

Klin.med. 39 no.2:29-35 F '61.

(MIRA 14:3)

1. Is gosital'noy khirurgicheskoy kliniki (zav. - deystvitel'-
nyy chlen AMN SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M. Sechenova (dir. chlen-
korrespondent AMN SSSR prof. V.V. Kovanov).

(ARTERIOSCLEROSIS)

(ANGIOGRAPHY)

NATSVLISHVILI, G.A.; ABRAMISHVILI, T.A., red. izd-va; MEGRELADZE,
A.G., tekhn. red.

[Thoracic aortography] Grudnaia aortografiia. Tbilisi, Gos.
izd-vo uchebno-pedagog. lit-ry "TSodna," 1962. 136 p.
(MIRA 15:12)

(ANGIOGRAPHY)

NATSVLISHVILI, G.A.

Diagnosis of the open ductus arteriosus. Trudy Inst. eksp. i klin.
khir. i gemat. AN Gruz.SSR 10:109-117 '62. (MIRA 1962)
(DUCTUS ARTERIOSUS—ABNORMALITIES AND DEFORMITIES)

NATSVLISHVILI, G.A.; KAZAROV, I.L.

Therapeutic anesthesia in the treatment of thyrotoxic goiter.
Khirurgiia 39 no.7:49-54 J1'63 (MIRA 16:12)

1. Iz Instituta eksperimental'noy i klinicheskoy khirurgii i
gematologii (dir. - akademik AN Gruzinskoy SSR K.D.Eristavi)
AN Gruzinskoy SSR.

NATSVLISHVILI, G.A.; GABUNIA, R.I.; P. ...

Importance of electrokymography in detecting patients with
cardiovascular diseases. Trudy inst. med. i khim. khim. i
gemat. AN Gruz. SSR 11:15-22, 1983, (MIRA) 17:8

NATSVLISHVILI, G.A.; LOMIDZE, T.D.; TABIDZE, F.N.

Significance of some methods of research on the peripheral vessels
in the diagnosis of endarterites. Sobh. AN Gruz. SSR 35 no.3:733-738
S '64. (MIRA 17:11)

BUACHIDZE, V.N.; NATSVLISHVILI, G.A.; GVANTSELADZE, O.D.; KAZARO, I.L.

Role of ergometry, spirometry, and electrocardiography in evaluating the functional state of the heart muscle in thyrotoxicosis. Soob. AMN Gruz. SSR 39 no.1:225-230 J1 '65.

(MIRA 18:10)

1. Institut eksperimental'noy i klinicheskoy khirurgii i gematologii AMN SSSR, Tbilisi. Submitted November 9, 1964.

NATSVLISHVILI, G.A.; MIKHOV, G.B.; KISELEV, V.M.

Contrast examination in traumatic aneurysms of peripheral vessels
Khirurgia 40 no.11:22-28 N '65. 'MIRA 18:7

1. Gospital'naya khirurgicheskaya klinika (zav. - prof. B.V. Petrovskiy)
I Meskovakogo ordena Len'na meditsinskogo instituta imeni Sechenova.

S/137/62/000/003/139/191
A052/A101

AUTHORS: Dolidze, V. M., Natsvlshvili, O. I.

TITLE: Intercrystalline liquation in the η -phase of the zinc-copper system

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 60, abstract 3I385
("Tr. In-ta fiz. AN GruzSSR", no. 7, 1960, 207-215, Georgian;
Russian, English summaries)

TEXT: In the Zn-Cu system the composition of the η -phase depends strictly on the temperature; in particular at 424°C the maximum solubility of Cu reaches 2.7%, at the indoor temperature the solubility decreases to 0.3%. In single crystals of the η -phase a certain regular distribution of the Cu-enriched regions is observed. The introduction of Al into the η -phase of the Zn-Cu system distorts the regularity of the Cu distribution.

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 1/1

S/137/62/000/006/091/153
A160/A161

AUTHORS: Chigvinadze, D. M., Natsvlishvili, G. I.

TITLE: Preparation of bicrystalline zinc rods with a desired orientation of grains

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 4, abstract 6129 ("Tr. In-ta fiz. AN GruzSSR", v. 7, 1960, 217 - 220, Georgian; Russian and English summaries)

TEXT: Bicrystalline zinc rods with a desired orientation of grains were obtained in a glass test tube with two extended cone-shaped capillaries. Preliminarily smelted zinc was fed into the tube. The heat transfer was secured through the ends of the tube capillaries. During the growing of bicrystals, the furnace (heated up to 430 - 440°C) was moved with a speed of 1.5 - 3 mm/min. By changing the incline of the capillaries with regard to the axis of the sample, bicrystals with grains of different orientation were obtained. A grain dominates in the rod, whose base plane constitutes a smaller angle with the vertical plane passing through the axis of the sample. By combining various inclines of the

Card 1/2

S/137/62/000/006/091/163
A160/A161

Preparation of...

Sample end of the axes of the cone-shaped capillaries, it is possible to obtain bicrystalline rods composed of grains of any orientation. Bicrystalline rods with a diameter of 5 - 10 mm and a length of 50 - 120 mm were obtained.

A. Kralina

[Abstracter's note: Complete translation]

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Card 2/2

NATSVLISHVILI, G.I.

Electron microscope study of the natural faces of zinc. Trudy
Inst.fiz.AN Grus.SSR 8:243-252 '62. (MIRA 16:2)
(Electron microscopy) (Zinc crystals)

CHIGVINADZE, D.M.; TOPCHIAN, L.S.; MATSVLISHVILI, G.I.

Effect of the direction of heat transfer on the orientation
of the growth of single crystals of some nonferrous metals.
Trudy Inst.fiz.AN Gruz.SSR 8:267-275 '62. (MIRA 16:2)
(Metal crystals—Growth)

L 12966465 EWT(m)/EPF(c)/EPF(n)-2/ (t)/EWP(b) Pu-4/Pr-4 GG/JD

S/0137/64/000/006/1021/1021

ACCESSION NR: AR4044209

SOURCE: Ref. zh. Metallurgiya, Abs. 61131

AUTHOR: Natavlishvili, G. I.; Chikobava, V. S.

TITLE: Influence of neutron irradiation on the decomposition of metallic solid solutions

CITED SOURCE: Tr. In-ta fiz. AN GruzSSR, v. 9, 1963, 159-169

TOPIC TAGS: solid solution, metallic solid solution, decomposition, neutron irradiation

TRANSLATION: The decomposition of supersaturated solid solutions of single- and polycrystalline samples of Al + 4% Cu, and also of polycrystalline samples of Cu + 2.5% Be under the influence of neutron irradiation (to $2 \cdot 10^{19} \text{ cm}^{-2}$) is studied by metallographic and electron-microscopic methods, and by measuring the microhardness. In the case of alloys Al-Cu there is no noticeable influence of irradiation. During irradiation of alloy Cu + 2.5% Be there is found the appearance of disperse

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L 12966-65

ACCESSION NR: AR4044209

particles of the γ -phase in an α -solid mother solution. In the case of controlled thermal aging of an unirradiated sample at 200° for 7 hours the microstructure has another form (greater precipitation of the secondary δ -phase). Notes the sharp increase in microhardness after irradiation: from 148±6 to 490±35 for the α -phase and from 530±35 to 870±60 for the γ -phase. The increase in microhardness of the α -phase is explained by the precipitation of disperse particles of the secondary γ -phase, and the increased microhardness of the primary γ -phase is explained by radiation damage.

SUB CODE: SS, NP

ENCL: 00

Card 2/2

ACC NR: AT7000183

SOURCE CODE: UR/3182/65/002/0046/0052

AUTHOR: Natsvlishvili, G. I.; Politov, N. G.; Getts, S. F.

ORG: none

TITLE: Electron microscope investigation of transmission through potassium chloride crystals

SOURCE: AN GruzSSR. Institut fiziki. Elektronnyye i ionnyye protsessy v tverdykh telakh, v. 2, 1965, 46-52

TOPIC TAGS: potassium chloride, electron microscopy, crystal defect, crystal dislocation phenomenon

ABSTRACT: A method is developed to prepare samples of KCl monocrystals for direct transmission observation in an electron microscope (Model UEMB-100) and to investigate the effect of electron irradiation on the crystals. A monocrystal is prepared by cutting a sample $10 \times 10 \times 0.5$ mm from a melt, then immersing only one side into glacial acetic acid until the crystal thins down to the desired thickness. The crystal is then washed in ethyl alcohol. Samples were also prepared by vacuum deposition and crystallization from aqueous solutions on platinum-carbon and lacquer films. Under irradiation the sample surface evaporates until the film reaches 1000 Å, then the crystal becomes transparent to the 75 kev electrons and dislocation as well as point defect con-

Card 1/2

MATSVLISHVILI, G. C.

"Determination of the Intensity of the Growing Together of Grafts from
Gorlun-Mtsvan and Chinur Varieties of Grapes and Basic Rootstocks and the
Rooting of Their Buds Under the Influence of Growth Stimulators." Cand Biol Sci,
Inst of Botany, Acad Sci Georgia SSR, 27 Dec 54. (ZV, 17 Dec 54)

Survey of Scientific and Technical Dissertations Defended at Union
Higher Educational Institutions (13)
SO: Sun. No. 550, 24 Jun 55

NATSVLISHVILI, K.

Reproduction of aspen by seed and sprouts in the Kazbegi
District forests and the prospects for its introduction
into cultivation. Trudy Inst. lesa AN Gruz.SSR 12:223-231
'63. (MIRA 18:2)

NATSVLISHVILI, M.G.

Some information on terrestrial mollusks of Geghechkori District.
Soob. AN GruzSSR 37 no.2:435-440 F '65.

(MIRA 18:3)

1. AN GruzSSR, Gosudarstvennyy muzey Gruzii im. S.N. Dzhnashia.
Submitted April 20, 1964.

IEZHAVA, G.I.; NATSVLISHVILI, M.G.

Materials on terrestrial mollusks of the forest zone of the
Kakhetian part of the Greater Caucasus. Soob. AN Gruz. SSR
38 no. 3:661-667 Je '65. (MIRA 18:12)

1. Gosudarstvennyy muzey Gruzii imeni Dzhanashia. Submitted
April 20, 1964.

NATSVLISHVILI, V. I.

Cand Agr Sci, Diss -- "Agrobiological properties of wild grape vines and their basic applications in selective agricultural engineering". Tblisi, Pub House of the Georgian Agr Inst, 1961. 22 pp, 21 cm (Min of Agr GSSR. Georgian Order of Labor Red Banner Agr Inst. The Telavs-kaya Experimental Station of the Inst of Horticulture, Viticulture and Viniculture, Acad Agr Sci GSSR), 200 copies, No charge (KL, No 9, 1961, p 186, No 24393). 761-523657

NATSVLISHVILI, V. I., aspirant

Influence of chronic inflammation of the palatine tonsils on
thyroid gland function. Vest. otorin. no.1:61-66 '62.

(MIRA 15:7)

1. Iz kafedry bolezney ukha, nosa i gorla (zav. - prof. I. I.
Potapov) i kafedry meditsinskoy radiologii (zav. - prof. V. K.
Modestov) Tsentral'nogo instituta usovershenstvovaniya vrachey,
Moskva.

(TONSILS--DISEASES) (THYROID GLAND)

NATTA, G.

7 7
Kinetics of stereospecific polymerization of propylene to isotactic
polymers. G. Natta, I. Pasquon and E. Ciaccia. (Angew. Chem.
1952, 65, 213-217) The kinetics of the polymerization of propy-
lene to isotactic polymers in presence of a catalyst.

7
4E2C
2 May

NATTE, I.

RABOTNOVA, I., KONDRAT'EVA, E., NATTE, I. and AHOLES, S.

Fixation of nitrogen of the Atmosphere by Azotobacter under various aeration conditions.

Mikrobiologiya, 1949, V. 18, Issue 6.

MATTER MAD, M.

"Our Hungarian Pine Trees." p. 730 (TERESEMET ES TARSADALOM. Vol. 113,
No 12, Dec. 1954: Budapest, Hungary.)

So: Monthly List of East European Accessions, (EAL), LC, Vol. 4, No. 4,
April 1955, Uncl..

HATTEB-HAD, M.

Hungarian physicians and gardening. Ther. hung. no.1:25-26 1956

(BOTANY, hist.

medico-botanical gardens of physicians in Hungary)

NATTER-NAD, Miksa

How long have insectivorous plants been known? Are there
such plants in Hungary? Elet tud 15 no.14:418 3 Ap '60.

NATTER-HAD, Mikea

Aucubae. Elet tud 15 no.16:494 17 Ap '60.

NATTER-NAD, Miksa

What plants are Ligustrum and Ilex aquifolium? Elet tud
15 no.27:834 3 J1 '60.

NATTER-NAD, Miksa

Ficus. Elet tud 15 no.29:922 17 JI '60.

NATTER-NAD, Miksa

Is it advisable to sprinkle plants occasionally with sugar water
to improve flower formation? Elet tud 15 no.36:1122 4 S '60.

NATTER-NAD, Miksa

Tuberoze. Elet tud 15 no.39:1230 25 S '60.

NATTER-NAD, Mikea

Why is the 4 and 5-leaf clover rare? Elet tud 15 no.43:1351
23 0 '60.

NATTER-NAD, Miksa

Coral tree. Elet tud 15 no.45:1422 6 M '60.

NATTER-NAD, Miksa

Ruscus. Elet tud 15 no.51:1622 18 D '60.

NATTER-NAD, Miksa

Winter treatment of house plants. Elet tud 16 no.49:Suppl.: Tarkatudomány
2 no.25: 195 3 D '61.

NATTER-NAD, Miksa

Fortune clover. Elet tud 16 no.4:110 22 Ja '61.

NATTER-NAD, Miksa

Is it worth while to cultivate cyclamen after its blossom? Elet
tud 16 no.6:182 5 F '61.

NATTER-NAD, Miksa

How can the winter radish be stored for a longer time? Elet tud
16 no.2:52 8 Ja '61.

NATTER-NAD, Miksa

How long has the blue-flowered hydrangea been known and how
to cultivate it? Elet tud 16 no.11:322 12 Mr '61.

NATTER-NAD, Miksa

In which flowers does proliferation occur? Is it an irregularity or a disease? Elet tud 16 no.17:514 23 Ap '61.

NATTER-NAD, Miksa

In what flowers does the prolofication occur? Is it an
irregularity or disease? Elet tud 16 no.19:578 7 My '61.

NATTER-NAD, Miksa

Peperomia. Elet tud 16 no.19:599 7 My '61.

NATTER-NAD, Miksa

Hoyas. Elet tud 16 no.27:847 2 J1 '61.

NATTER-NAD, Mike

Calceolaria. Elettud 16 no.44,1383 29.1.161.

NATTER-NAD, Mikea

Is it possible to raise house plants in tin or copper vessels?
Elet tud 16 no.49:1538 3 D '61.

NATTER-NAD, Miksa

Corn salad. Elet tud 17 no.22:Suppl.: Tarkatudomány 3
no.11:83 3 Je '62.

MATTER-NAD, Miksa

Our berries ready for reaping. Elet tud 17 no.24:Suppl.: Tarkatodomany
3 no.12:91 17 Je '62.

NATTER-NAD, Miksa

Chlorophytum. Elet tud 17 no.7:218 F '62.

NATTER-NAD, Miksa

Isolepis gracilis. Elet tud 17 no.23:730 10 Je '62.

NATTER-MAD, Mikas

Which are Hungary's plants with smallest flowers? Elet tud 17 no.24:
738 17 Jo '62.

NATTER-NAD, Miksa

What is the origin of peanuts? Is it grown in Hungary? Elet tud
17 no.32:1011 12 Ag '62.

NATTER-NAD, Miksa

Floral decoration on window sills. Elet tud 17 no. 16:
Supplement: Tarkatudomány 3 no. 8:62 22 Ap '62.

NATTER-NAD, Miksa

The melon is growing ripe. Elet tud 17 ~~no.33210%~~ 19 Ag '62.

NATTER-NAD, Miksa

What is the origin of agave, is it flowering in Hungary, and
when? Elet tud 17 no.34:1069 .6 Ag '62.

NATTER-NAD, Miksa

Is it possible to prepare home-made caterpillar glue?
Elet tud 17 no.35:1111 2 S '62.

NATTER-NAD, Miksa

Digging up bulbs and planting them in the flower garden. Elet tud
17 no.45:1440 11 N '62.

NATTER-NAD, Miksa

How should we protect our plants against cold and frost? Let
tud 18 no.1:32 6 Ja '63.

NATTER-NAD, Miksa

Asparagus in the home garden. Elet tud 18 no.17:544 28 Ap '63.

NATTER-NAD, Milka

Is it useful to plant snowberries for honeybees? Elected 19 no.
13:584 Mr '64.

25(3)

SOV/117-59-5-26/30

AUTHORS: Pankratov, G.N., and Natuchchi, T.A.

TITLE: On the Reorganization of Enterprises Into a System Without Shop Administration. (Experience of Mosgorsovnarkhoz)

PERIODICAL: Mashinostroitel', 1959, Nr 5, pp 41-45 (USSR)

ABSTRACT: The Moscow (city) Sovnarkhoz is reducing the number of administration personnel and simplifying the administration in the enterprises within its scope. The liquidation of administration in separate plant shops has freed technicians from administrative work, and the foremen have been given the authority to move poor workers to lower paid jobs, to give bonuses for good work, and to decide on the tariff class for the workers. Some intermediate administrative links are being abolished, e.g. the "OTK" (technical inspection) and replaced by a "foreman for quality". Instead of the former shops there are "uchastki" ("sections", or "departments") for which the foremen are responsible, and in the success of which they are financially interested. The result is an overfulfilled production plan, improved quality of products

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SOV/117-59-5-26/30

On the Reorganization of Enterprises Into a System Without Shop Administration. (Experience of Mosgorsovmekhoz)

and reduced costs. The article includes charts illustrating the difference in the administrative system before and after the reorganization (plants "Ressora", "KIP" and "Gosteasvet"). By the 1st of January 1959, the new administrative system was introduced in 81 enterprises (of a total of about 200) and 547 employees could be released for other duties (among them 203 engineers). The authors mention the following Moscow plants, as having successfully introduced the new administration system: Zavod "Ressora" ("Ressora" Plant) producing 200 types of spring and spare parts for spring repairs; Zavod elektronasosov (Electric Pump Plant) mass-producing electric pumps, electric motors, etc.; Zavod KIP (KIP Plant) producing control and measuring devices for the oil industry; the Moskovskiy elektromekhanicheskiy zavod -MEMZ (the Moscow Electromechanical Plant), leading in the production of low-voltage transformers and carrying out the repair of electric motors of up to 100 kilowatts; Zavod "Geofizika" ("Geofizika" Plant) producing 17 geophysical types of apparatus;

Card 2/3

SOV/117-59-5-26/30

On the Reorganization of Enterprises Into a System Without Shop Administration. (Experience of Mosgorsovmakhov)

and the Zavod "Gosteasvet" ("Gosteasvet" Plant) producing lighting engineering apparatus and electric control machines for theatres, television centers, culture palaces etc. There are 6 organizational charts.

Card 3/3

NATURALISTA, Antoni

Problems of sulfur removal from coke oven gas by the Thylor method. Koks 8 no.3:84-88 My-Je'63.

1. Zaklad Koksochemii, Huta im. Lenina, Nowa Huta.

NATURSKA-TARGOSZ, Halina; DESZCZOWA, Jozefa

A case of mycsitis ossificans generalisata. Pol. tyg. lek. 19
no.27:1038-1040 6 Je'64

1. Z Kliniki Radiologicznej Akademii Medycznej w Krakowie
(kierownik: prof. dr. Stanislaw Januszkiewicz) i z Oddzialu
Chirurgii Szczekowej Akademii Medycznej w Krakowie (kierownik:
dr. Jerzy Drozdowski).

DANEK, Zbigniew; NATURSKA-TARGOSZ, Halina

Radiologic picture of circumscribed calcinosis associated with
scleroderma. Pol. tyg. Lek. 20 no.6:217-219 8 P 1cf

1. Z Kliniki Radiologicznej Akademii Medycznej w Krakowie
(Kierownik: prof. dr. Stanislaw Januszkiewicz).

JANUSZKIEWICZ, St.; KARP, W.; MARCINKOWSKI, M.; NATURSKA-TARGOSZ, H.;
SZUL, H.

Development of medical radiology in Cracow. Pol. tyg. lek. 20
no.21:778-780 24 My '65.

1. Z Kliniki Radiologicznej AM w Krakowie (Kierownik: prof.
dr. St. Januszkiewicz).

NATURSKI, A.

"Establishing a Schedule of Work" p. 35 (Wiesnosaci Gornicza, Vol. 4, No. 2, Feb., 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, Uncl.

NATURSKI, A.

"Boring Stone" p. 161 (Wlasnosci Gornicze, Vol. 4, No. 6, June, 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, Uncl.

NATURSKI, A.

"The Success of Pribram Miners" P. 225

"Improvements in the Transportation of Coal" p. 227 (Wiedomosci Gornicze, Vol.4,
No. 7/8, July/Aug., 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,
February, 1954, Uncl.

NATURSKI, A.

TECHNOLOGY

PERIODICAL: PRZEGLAD GORNICZY. Vol. 14, no. 1, Jan. 1958.

NATURSKI, A. Outlines of the development of methods of extracting mine gases. p. 17.

Monthly List of East European Accessions (EEAI) LC Vol. 3, no. 4
April 1959, Unclass.

MATURSKI, Adam, mgr inz.

Mining in France and the German Federal Republic. Rudy i
metale 6 no.10:466-467 0 '61.

NATURSKI, Adam, mgr., inz.

Mining industry in France and in the German Federal Republic; the development of exploitation systems in the potassium salt mines in Alsace. Pt.3. Rudy i metale 6 no.12:559-556 D '61.

L 9085-65 EWT(m)/EWA(d)/EWP(k)/EWA(h) PF-4/Peb ASD(f)/AFTG(p)

ACCESSION NR: AP4043422

S/0147/64/000/003/0075/0078

AUTHOR: Natunhkin, V. F., Rakhimov, I. S.

TITLE: Vibration of a cylindrical shell partly filled with liquid

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 3, 1964, 75-78

TOPIC TAGS: shell, cylindrical shell, shell vibration, liquid filled shell, circular cylindrical shell, liquid filled shell vibration

ABSTRACT: The authors consider the influence of a liquid in a circular cylindrical shell on the natural frequencies of its vibration under arbitrary boundary conditions. They show that in engineering analysis of this problem, the factor of the reduced mass of the liquid plays an important role. The vibrational behavior of a circular cylindrical shell in vertical position is examined. The differential equation of equilibrium of an element of a liquid-containing shell is used as the starting point and the effects of tangential and rotational inertia are neglected. It is assumed that the motion of the liquid is potential and isentropic. The effect of the amount of liquid in the shell is discussed and a simple

a liquid-containing shell is used as the boundary, potential rotational inertia are neglected. It is assumed that the motion of the liquid is potential and isentropic. The effect of the amount of liquid in the shell is discussed and a simple practical formula is derived for the natural frequencies of vibration of a shell partly or completely filled with liquid. Orig. art. has: 23 formulas.

Card 1/2

L 9085-65

ACCESSION NR: AP4943428

ASSOCIATION: none

SUBMITTED: 20Jul63

ENCL: 00

SUB CODE: AS

NO REF SOV: 003

OTHER: 000

L 31894-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k) LJP(c) WW/EM
ACC NR: AP6011787 SOURCE CODE: UR/0147/66/000/001/0073/0079

AUTHOR: Natushkin, V. F.; Kirichenko, A. N.

46

3

ORG: none

TITLE: Natural vibrations and stability of truncated structurally orthotropic shells

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 73-79

TOPIC TAGS: vibration, shell structure stability

ABSTRACT: The authors study natural vibrations and stability of closed shells of revolution with degenerated poles and variable rigidity and geometric parameters. The eigenvalue determination for these shells can be reduced to a single algorithm $v=v_0n$, where v is the unknown eigenvalue and v_0 is the eigenvalue for some similar shell with constant parameters. For the case of a conical shell, such a similar shell would be a cylinder with radius equal to the average radius of curvature, height equal to the length of the generatrix and thickness equal to the mean thickness of the reference surface. The study is divided into two parts: finding the solution for the equation with constant coefficients to determine v_0 , and determining the effect of variability in the shell parameter n . Stability and vibrations of closed shells of revolution are analyzed. Eigenvalues are determined for various cases of orthotropic tapered shells resting on their edges. The case of a shell with rigidly fixed edges is considered.

UDC: 539.3 + 629.13.012.2

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L 31894-66

ACC NR: AP6011787

The results of this study also include smooth shells which are a special case in structurally orthotropic systems. The class of eigenvalues for real shells is included in the region of static and dynamic instability. The algorithm $v=v_0n$ may be used for practical calculation of the eigenvalues for stability and vibrations of tapered truncated shells. Orig. art. has: 2 figure, 32 formulas.

SUB CODE 01, 13

SUBM DATE: 27Sep65/

ORIG REF: 003/

OTH REF: 001

Card 2/2 *mc*

1. N. K. NATYAGAYLO
2. USSR (600)
4. Buckwheat
7. Wide-row plantings of buckwheat. Snor. stud. rab. Umansk. sel'khoz. inst.
no. 1. 1951
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

METSIK, R.; METSIK, L.; NAU, KH. [Nau, H.]

~~Chloride distribution between the solid, water and tar phases in shale~~
Chloride distribution between the solid, water and tar phases in shale
tars. Khim. i tekhn.gor.slant. i prod. ikh perer. no.12:285-291 '63.
(MIRA 17:2)

METSIK, R.; NAU, Kh. [Nau, H.]

Investigating the effect of certain factors causing the corrosion of shale tar tanks. Khim. i tekhn. gor. slan. i prod. ikh perer. no. 12:296-296 '63.

(MIRA 17:2)

NAUBATOV, Kh.V., vrach

Some problems in the clinical aspects and pathogenesis of psychoses
in "Asian" influenza. Zdrav.Turk. 3 no.5:35-38 S-O '59.

(MIRA 13:4)

1. Iz kafedry psikhiiatrii (zaveduyushchiy - dotsent A.N. Shogan)
Turkmenского gosudarstvennogo meditsinskogo instituta im. I.V.
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[Speeding up car turnover] Uskorenie oborota vagona. Moskva,
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1961. 241 p. (MIRA 15:2)
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(Volga-Ural region--Earth temperature)
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no.7:63-70 J1 '64. (MIRA 18:7)

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USSR / Soil Science. Mineral Fertilizers.

J

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48662

Author : Naudipš, J.

Inst : Not given

Title : Some Investigations on the Influence of Liming on Soil Properties, Root Systems and Productivity of Rye and Perennial Grasses

Orig Pub : Pochva i urozhay, Riga, 1956, 5, 125-156

Abstract : Field Experiments, conducted in the years 1952-1953 at the Agricultural School at Agro and in one of the kolkhozes in Rizhskiy Rayon, showed that the result of liming acidy turf-podzolic soils was the elevation of the pH by 0.7 units, the elevation of the basic saturation point by 12-19%, the elevation of the active lime content by 0.03-0.05% and a decrease in the amount

Card 1/2

USSR / Soil Science. Mineral Fertilizers.

J

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48662

of movable lime forms. The bulk of roots of rye and perennial grasses increased, and their deeper penetration into the lower soil layers was observed; in these layers, branching and the formation of active rootlets was intensified. The amount as well as quality of the harvest was increased. Liming should be combined with deepening of the arable layer. -- N. N. Sckolev

Card 2/2

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Make a more complete use of local fertilizers.

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no.4:43-43 '57. (MLRA 10:7)

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